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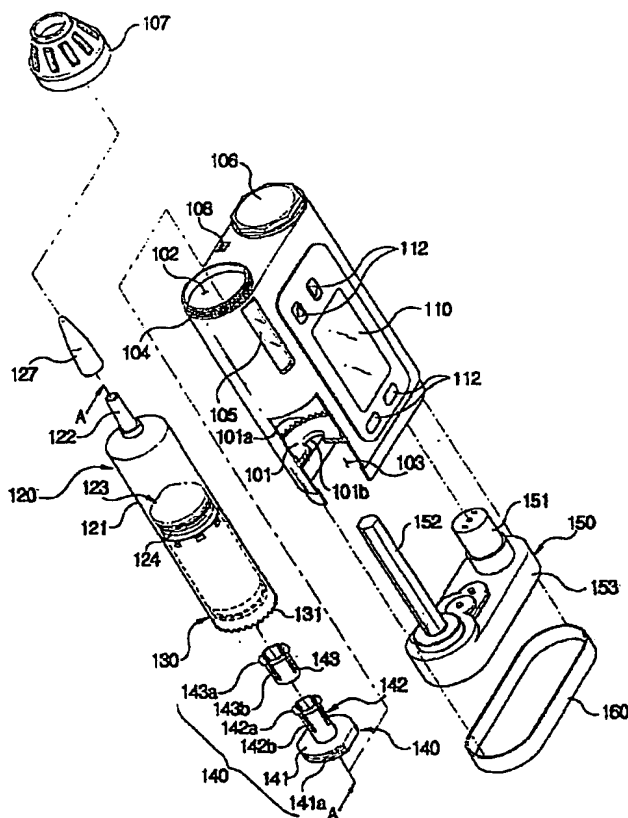
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- (71) Applicants (for all designated States except US): **ENTER TECH CO., LTD** [KR/KR]; 401-5 Bunji, Hwagok-dong, Gangseo-gu., Seoul 157-887 (KR). **LEE, Kyung-Ho** [KR/KR]; #302-1305, Mok Dong Sinsigaji Apt., 903, Mok-dong, Yangcheon-gu., Seoul 158-050 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **JAN, Kil-Wan** [KR/KR]; #102-903, Hanggang SSangyong Apt 150, Bon-dong, Dongjak-gu, Seoul 156-812 (KR). **NAM, Young-Taeg** [KR/KR]; #402, Dong Yang Billa Gadong, 135-7, Ohjeong-dong, Ohjeong-gu, Bucheon City., Kyunggi-do 421-814 (KR). **MOON, Chi-Hwan** [KR/KR]; 912-5, Jakjeon-dong, Gyeyang-gu., Incheon Metropolitan City 407-825 (KR).
- (74) Agent: **KIM, Young-Chul**; 5F Nam Chang Bldg, 748-16 yoksam-dong, Kangnam-gu, Seoul 135-080 (KR).
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(54) Title: INSULIN PUMP



(57) Abstract: The present relates to an automatic insulin pump, which allows the rotary shaft only to rotate piston advancing means to remove vertical load applied to a rotary shaft, thereby improving durability thereof. The insulin pump includes: an injector having a syringe for containing insulin therein, and a piston inserted into the rear end of the syringe for providing the syringe with insulin discharge pressure; a housing having an injector receiving space formed in an appropriate position thereof, the injector receiving space having a partition wall formed at the rear end thereof; a rotary shaft having a non-circular section and a predetermined length; power supply means for rotating the rotary shaft at a predetermined speed; a push plate assembly for providing the piston with ahead power by pushing the piston, the push plate assembly having a disk part having a male screw formed on the outer circumferential surface thereof and a coupling hole axially coupled with the rotary shaft at the central portion thereof to allow for forward and backward movement of the rotary shaft, which passes through the coupling hole; and a hollow cylindrical type push plate case inserted into the injector receiving space of the rear end of the syringe, for the piston to pass therethrough, the push plate case having a female screw formed on the inner circumferential surface thereof to be coupled with the male screw of the disk part for allowing the disk part to carry out a spirally forward and backward movement.



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